UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



Richard McMillin

Region 6 Laboratory Manager

Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Fax: (281)983-2248 Phone: (281)983-2100

Final Analytical Report

| | Site Name | | -Oil Trust Fund | | |
|--|-------------------------|-----------|-------------------|-------------------|----------|
| | Sample Collection I | Date(s) | 07/15/10 | | |
| | Contact | | · Rich Mayer (6PD |)- F) | |
| | Report Date | | -07/21/10 | | |
| | Project # | | 10REG204 | | |
| | Work Order(s) | | -1007024 | | |
| | | | | | |
| | | | | | |
| Analyses included in this rep | port: | | | | |
| LC DOSS | | | | | |
| Report Narrative | | | | | |
| Sample 1007024-11 was (1007024-11RE1) is repo | orted. | | · | the re-extraction | n result |
| Standard procedures for reporting of the sample should only be reproduce | results. The results ap | - | | _ | • |
| Reporting limits are adju- | sted for sample size an | nd matrix | interference. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Report Approvals: | | | | | |
| | | | | | |

David Neleigh

Region 6 Laboratory Branch Chief

THITED STATES

Please provide a reason for holding:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

| Site Name: Oil Trust Fund | Project Number: 10REG204 | | | | |
|---|--|--|--|--|--|
| Data Management Coordinator: Christy Warren | / / | | | | |
| Data Management Coordinator Signature | Date | | | | |
| Date Transmitted:/ | | | | | |
| Please have the U.S. EPA Project Manager/Office comments or questions. | er call the Data Management Coordinator at 3-2137 for any | | | | |
| Please sign and date this form below and return it | t with any comments to: | | | | |
| Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS | | | | | |
| | | | | | |
| Received by and Date | | | | | |
| Comments: | | | | | |
| The laboratory routinely disposes of samples 90 disposes and these samples in custody longer than 90 days | days after all analyses have been completed. If you have a need to s, please sign below. | | | | |
| Signature | Date | | | | |



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

| Station ID | Laboratory ID | Sample Type | Date Collected | Date Received |
|-----------------------|---------------|-------------|----------------|----------------|
| T005-0010-100715-SW-1 | 1007024-01 | Liquid | 7/15/10 9:30 | 07/16/10 09:35 |
| T005-0011-100715-SW-1 | 1007024-02 | Liquid | 7/15/10 10:05 | 07/16/10 09:35 |
| T005-0012-100715-SW-1 | 1007024-03 | Liquid | 7/15/10 10:40 | 07/16/10 09:35 |
| T005-0012-100715-SW-2 | 1007024-04 | Liquid | 7/15/10 10:40 | 07/16/10 09:35 |
| T005-0013-100715-SW-1 | 1007024-05 | Liquid | 7/15/10 11:10 | 07/16/10 09:35 |
| T005-0014-100715-SW-1 | 1007024-06 | Liquid | 7/15/10 11:40 | 07/16/10 09:35 |
| T005-0015-100715-SW-1 | 1007024-07 | Liquid | 7/15/10 12:10 | 07/16/10 09:35 |
| T007-0008-100715-SW-1 | 1007024-08 | Liquid | 7/15/10 10:25 | 07/16/10 09:35 |
| T007-1328-100715-SW-1 | 1007024-09 | Liquid | 7/15/10 8:50 | 07/16/10 09:35 |
| T007-1332-100715-SW-1 | 1007024-10 | Liquid | 7/15/10 9:40 | 07/16/10 09:35 |
| T007-BG02-100715-SW-1 | 1007024-11 | Liquid | 7/15/10 11:55 | 07/16/10 09:35 |
| T001-2415-100715-SW-1 | 1007024-12 | Liquid | 7/15/10 13:15 | 07/16/10 09:35 |
| T001-SW01-100715-SW-1 | 1007024-13 | Liquid | 7/15/10 12:00 | 07/16/10 09:35 |
| T001-SW01-100715-SW-D | 1007024-14 | Liquid | 7/15/10 12:00 | 07/16/10 09:35 |
| T001-SW02-100715-SW-1 | 1007024-15 | Liquid | 7/15/10 11:00 | 07/16/10 09:35 |
| T001-SW03-100715-SW-1 | 1007024-16 | Liquid | 7/15/10 10:15 | 07/16/10 09:35 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-01 Station ID: T005-0010-100715-SW-1

Batch: B0G1603 Date Collected: 07/15/10 Sample Type: Liquid Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

| Analyte | $\mathop{Result}_{\mu g/l}$ | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared | Analyzed |
|----------------|-----------------------------|-----------------------|-----------|---------------------|----------|----------|
| Surr: DOSS-D34 | 155 | | 85.4 | 50-150 | 07/16/10 | 07/17/10 |
| | | | | | | |

Targets

| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|----------|-------------------|
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 20.0 | 1 | 07/16/10 07/17/10 |

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-02

Batch: B0G1603 Sample Type: Liquid Date Collected: 07/15/10 Sample Volume: 22 ml

Sample Qualifiers:

Station ID: T005-0011-100715-SW-1

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|-------------------|
| Surr: DOSS-D34 | 136 | | 74.9 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.5 | 1 | 07/16/10 07/17/10 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-03

Batch: B0G1603 Sample Type: Liquid Station ID

Station ID: T005-0012-100715-SW-1

Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|-------------------|
| Surr: DOSS-D34 | 142 | | 81.7 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.6 | 1 | 07/16/10 07/17/10 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-04

Batch: B0G1603 Sample Type: Liquid

Station ID: T005-0012-100715-SW-2 Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|----------------------|----------------|-----------------------|--------------------|---------------------|-------------------|
| Surr: DOSS-D34 | 120 | | 69.0 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | g Dilution | Prepared Analyzed |
| Analyte (CAS Number) | μg/I | Qualifiers | Limit | Dilution | Prepared Analyz |

Dioctyl sulfosuccinate, sodium salt (577-11-7) 20.0 07/16/10 07/17/10 U 1

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-05

Batch: B0G1603 Sample Type: Liquid

Station ID: T005-0013-100715-SW-1 Date Collected: 07/15/10

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|-------------------|
| Surr: DOSS-D34 | 157 | | 90.2 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.6 | 1 | 07/16/10 07/17/10 |

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-06

Batch: B0G1603 Sample Type: Liquid Station ID: T005-0014-100715-SW-1

Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|-------------------|
| Surr: DOSS-D34 | 132 | | 75.6 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | IJ | | 20.0 | 1 | 07/16/10 07/17/10 |

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-07

Batch: B0G1603 Sample Type: Liquid

Station ID: T005-0015-100715-SW-1 Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared | Analyzed |
|----------------|----------------|-----------------------|-----------|---------------------|----------|----------|
| Surr: DOSS-D34 | 144 | | 82.7 | 50-150 | 07/16/10 | 07/17/10 |
| | | Targets | | | | |
| | Result | Analyte | Reporting | 7 | | |

| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|----------|-------------------|
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 20.0 | 1 | 07/16/10 07/17/10 |

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-08

Batch: B0G1603 Sample Type: Liquid Station ID: T007-0008-100715-SW-1

Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|----------------------|----------------|-----------------------|-----------------|---------------------|-------------------|
| Surr: DOSS-D34 | 145 | | 83.5 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | g Dilution | Prepared Analyzed |

Analyte (CAS Number) $\mu g/l$ Qualifiers Limit Dilution Prepared Analyzed Dioctyl sulfosuccinate, sodium salt (577-11-7) U 19.6 1 07/16/10 07/17/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-09

Batch: B0G1603 Sample Type: Liquid **Station ID: T007-1328-100715-SW-1**Date Collected: 07/15/10

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|----------------|----------------|-----------------------|-----------|---------------------|-------------------|
| Surr: DOSS-D34 | 153 | | 87.9 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| | Result | Analyte | Reporting | T C | |

| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
|--|----------------|-----------------------|-----------------|----------|-------------------|
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.6 | 1 | 07/16/10 07/17/10 |

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-10

Batch: B0G1603 Sample Type: Liquid

Station ID: T007-1332-100715-SW-1

Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|-------------------|
| Surr: DOSS-D34 | 150 | | 86.2 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.6 | 1 | 07/16/10 07/17/10 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-11RE1

Batch: B0G1901 Sample Type: Liquid **Station ID: T007-BG02-100715-SW-1**Date Collected: 07/15/10

Sample Qualifiers:

Surrogates

Sample Volume: 23 ml

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared An | alyzed |
|----------------------|----------------|-----------------------|--------------------|---------------------|-------------|---------|
| Surr: DOSS-D34 | 136 | | 78.1 | 50-150 | 07/19/10 07 | 7/19/10 |
| | | Targets | | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | ; Dilution | Prepared An | nalyzed |

Dioctyl sulfosuccinate, sodium salt (577-11-7) U 19.6 1 07/19/10 07/19/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-12 Station ID: T001-2415-100715-SW-1

Batch: B0G1603 Date Collected: 07/15/10 Sample Volume: 24 ml Sample Type: Liquid

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|-------------------|
| Surr: DOSS-D34 | 144 | | 86.1 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.6 | 1 | 07/16/10 07/17/10 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-13

Batch: B0G1603 Sample Type: Liquid Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Station ID: T001-SW01-100715-SW-1

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|----------------------|----------------|-----------------------|-----------------|---------------------|-------------------|
| Surr: DOSS-D34 | 152 | | 87.2 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | g Dilution | Prepared Analyzed |

Analyte (CAS Number) $\mu g/l$ Qualifiers Limit Dilution Prepared Analyzed Dioctyl sulfosuccinate, sodium salt (577-11-7) U 20.0 1 07/16/10 07/17/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-14

Batch: B0G1603 Sample Type: Liquid Station ID: T001-SW01-100715-SW-D

Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared A | Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|------------|----------|
| Surr: DOSS-D34 | 154 | | 88.6 | 50-150 | 07/16/10 | 07/17/10 |
| | | Targets | | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared A | Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.6 | 1 | 07/16/10 | 07/17/10 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-15

Batch: B0G1603 Sample Type: Liquid 5/10

Station ID: T001-SW02-100715-SW-1

Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|-------------------|
| Surr: DOSS-D34 | 150 | | 86.5 | 50-150 | 07/16/10 07/17/10 |
| | | Targets | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 19.6 | 1 | 07/16/10 07/17/10 |

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007024-16

Batch: B0G1603 Sample Type: Liquid 15/10

Station ID: T001-SW03-100715-SW-1

Date Collected: 07/15/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

| Analyte | Result µg/l | Analyte Qualifiers | %Recovery | %Recovery Limits | Prepared | Analyzed |
|--|----------------|-----------------------|--------------------|---------------------|----------|----------|
| Surr: DOSS-D34 | 151 | | 86.8 | 50-150 | 07/16/10 | 07/17/10 |
| | | Targets | | | | |
| Analyte (CAS Number) | Result µg/l | Analyte Qualifiers | Reporting Limit | Dilution | Prepared | Analyzed |
| Dioctyl sulfosuccinate, sodium salt (577-11-7) | U | | 20.0 | 1 | 07/16/10 | 07/17/10 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G1603 Sample Type: Liquid

Blank (**B0G1603-BLK1**)

Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

| | Result | Analyte | Spike | | %REC |
|----------------|--------|-----------|-------|------|--------|
| ANALYTE | μg/l | Qualifier | Level | %REC | Limits |
| Surr: DOSS-D34 | 165 | | 200 | 82.4 | 50-150 |

Blank (**B0G1603-BLK1**)

Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

| ANALYTE | | Analyte Reporting Qualifiers Limit | RPD RPD Limit |
|--------------------------------|---|------------------------------------|------------------|
| Dioctyl sulfosuccinate, sodium | U | 20.0 | |

salt

LCS (B0G1603-BS1)

Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC | %REC Limits |
|----------------|----------------|----------------------|----------------|------|----------------|
| Surr: DOSS-D34 | 167 | | 200 | 83.5 | 50-150 |

LCS (B0G1603-BS1)

Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

| ANALYTE | Result | Analyte Reporting | Spike | %REC | RPD |
|-------------------------------------|--------|-------------------|-------|-------------|-----------|
| | µg/l | Qualifiers Limit | Level | %REC Limits | RPD Limit |
| Dioctyl sulfosuccinate, sodium salt | 110 | 20.0 | 101 | 109 50-150 | |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G1603 Sample Type: Liquid

Matrix Spike (B0G1603-MS1)

Prepared: 7/16/2010 Analyzed: 7/17/2010 Source: 1007024-01

Surrogates

| ANALYTE | Result | Analyte | Spike | %REC |
|----------------|--------|-----------|-------|-------------|
| | µg/l | Qualifier | Level | %REC Limits |
| Surr: DOSS-D34 | 138 | | 174 | 79.1 50-150 |

Matrix Spike (B0G1603-MS1)

Prepared: 7/16/2010 Analyzed: 7/17/2010 Source: 1007024-01

Targets

| ANALYTE | | Analyte Reporting Qualifiers Limit | | | | %REC Limits | |
|--------------------------------|------|------------------------------------|------|---|-----|----------------|--|
| Dioctyl sulfosuccinate, sodium | 94.4 | 20.0 | 87.8 | U | 107 | 50-150 | |

Matrix Spike (B0G1603-MS2)

Prepared: 7/16/2010 Analyzed: 7/17/2010 Source: 1007024-15

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC | %REC Limits |
|----------------|----------------|----------------------|----------------|------|----------------|
| Surr: DOSS-D34 | 137 | | 167 | 82.3 | 50-150 |

Matrix Spike (B0G1603-MS2)

Prepared: 7/16/2010 Analyzed: 7/17/2010 Source: 1007024-15

Targets

| ANALYTE | Result µg/l | Analyte Reporting Qualifiers Limit | | | | %REC Limits | RPD | RPD Limit |
|--------------------------------|----------------|------------------------------------|------|---|-----|----------------|-----|--------------|
| Dioctyl sulfosuccinate, sodium | 91.4 | 19.6 | 84.2 | U | 109 | 50-150 | | |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G1603 Sample Type: Liquid

Matrix Spike Dup (B0G1603-MSD1)

Source: 1007024-01 Prepared: 7/16/2010 Analyzed: 7/17/2010

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC %REC Limits | |
|----------------|----------------|----------------------|----------------|---------------------|--|
| Surr: DOSS-D34 | 140 | | 174 | 80.5 50-150 | |

Matrix Spike Dup (B0G1603-MSD1)

Prepared: 7/16/2010 Analyzed: 7/17/2010 Source: 1007024-01

Targets

| ANALYTE | | Analyte Reporting Qualifiers Limit | | | | %REC Limits | RPD | RPD Limit |
|-------------------------------------|------|---------------------------------------|------|---|-----|----------------|------|--------------|
| Dioctyl sulfosuccinate, sodium salt | 92.9 | 20.0 | 87.8 | U | 106 | 50-150 | 1.64 | 30 |

Matrix Spike Dup (B0G1603-MSD2)

Prepared: 7/16/2010 Analyzed: 7/17/2010 Source: 1007024-15

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC | %REC Limits |
|----------------|----------------|----------------------|----------------|------|----------------|
| Surr: DOSS-D34 | 136 | | 174 | 78.3 | 50-150 |

Matrix Spike Dup (B0G1603-MSD2)

Source: 1007024-15 Prepared: 7/16/2010 Analyzed: 7/17/2010

Targets

| ANALYTE | | Analyte Reporting Qualifiers Limit | | | | %REC Limits | RPD | RPD Limit |
|-------------------------------------|------|---------------------------------------|------|---|-----|----------------|------|--------------|
| Dioctyl sulfosuccinate, sodium salt | 95.6 | 20.0 | 87.8 | U | 109 | 50-150 | 4.52 | 30 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G1901 Sample Type: Liquid

Blank (**B0G1901-BLK1**)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC | %REC Limits |
|----------------|----------------|----------------------|----------------|------|----------------|
| Surr: DOSS-D34 | 136 | | 200 | 68.1 | 50-150 |

Blank (B0G1901-BLK1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Targets

| ANALYTE | | Analyte Reporting Qualifiers Limit | RPD RPD Limit |
|-------------------------------------|---|---------------------------------------|------------------|
| Dioctyl sulfosuccinate, sodium salt | U | 20.0 | |

LCS (B0G1901-BS1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Surrogates

| ANALYTE | Result µg/l | Analyte Qualifier | Spike Level | %REC | %REC Limits |
|----------------|----------------|----------------------|----------------|------|----------------|
| Surr: DOSS-D34 | 139 | | 200 | 69.5 | 50-150 |

LCS (B0G1901-BS1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Targets

| ANALYTE | Result µg/l | Analyte Reporting Qualifiers Limit | | %REC %REC Limits | RPD RPD Limit |
|-------------------------------------|----------------|---------------------------------------|-----|------------------|------------------|
| Dioctyl sulfosuccinate, sodium salt | 102 | 20.0 | 101 | 101 50-150 | |

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No: T0033-100402-20100715-006 Aricallivo: Lab: U.S. EPA Region 6 Laboratory

CHAIN OF CUSTODY RECORD R06_DeepWater Chalmette Contact Name: Kristie Warr

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Fax:(281)983-2248 Phone:(281)983-2100

| T005-0010-100715-SW-1 D0SS Surface Grab 7715-2010 10-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 10-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 10-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 2 40 m/VOA 4 C N T005-0011-100715-SW-1 D0SS Surface Grab 7715-2010 11-40 741-4-7-7-5-2-4-4 T41-4-7-7-5-2-4-4 T41-4-7-7-7-7-4-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-4 T41-4-7-7-7-7-7-4 T41-4-7-7-7-7-7-4 T41-4-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7 | Lab # | Sample # | Analyses | Matrix | Collection | Collected | Sample | Numb Cont | Numb Cont Container | Preservativ MS/MS e D | MS/MS D |
|--|-------|---|----------|------------------|----------------------|-----------|------------|--|-----------------------|--------------------------|------------|
| 100715-SW+1 DOSS Surface Grab 7715-2010 10.05 2 40 m VOA 4 C N | | T005-0010-100715-SW-1 | DOSS | Surface Water | Grab | 7/15/2010 | 06:30 | 9 | | 4 C | >- |
| 100715-SW-1 DOSS | | T005-0011-100715-SW-1 | SSOO | Surface Water | Grab | 7/15/2010 | 10:05 | 2 | | 4 C | z |
| 100715-SW-1 DOSS Surface Grab 7715-2010 10:40 2 40 mi VOA 4 C N Water Surface Grab 7715-2010 11:40 2 40 mi VOA 4 C N Water Surface Grab 7715-2010 11:40 2 40 mi VOA 4 C N Water Surface Grab 7715-2010 12:10 2 40 mi VOA 4 C N Water Surface Grab 7715-2010 12:10 2 40 mi VOA 4 C N Water Surface Grab 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 2 40 mi VOA 4 C N Water 7715-2010 12:10 | | T005-0012-100715-SW-1 | SSOO | Surface | Grab | 7/15/2010 | 10:40 | 2 | | 4 C | z |
| 100715-SW-1 DOSS Surface Grab 7115-2010 11:10 2 40 ml VOA 4 C N Water Surface Grab 7115-2010 11:40 2 40 ml VOA 4 C N Water Surface Grab 7115-2010 12:10 2 40 ml VOA 4 C N Water Surface Grab 7115-2010 12:10 2 40 ml VOA 4 C N Water Surface Grab 7115-2010 12:10 2 40 ml VOA 4 C N Water Surface Grab 7115-2010 12:10 2 40 ml VOA 4 C N Water Surface Grab 7115-2010 12:10 2 40 ml VOA 4 C N Water 100715-SW-1 | | T005-0012-100715-SW-2 | SSOO | Surface | Grab | 7/15/2010 | 10:40 | 2 | | 40 | z |
| National State of the mission of the | | T005-0013-100715-SW-1 | SSOO | Surface Water | Grab | 7/15/2010 | 11:10 | 2 | | 4 C | z |
| Relinquished by Date Reserved by Date Time Items Reason Relinquished By Date Received by Date Refinduished by Date Reserved by Date Time Standard Alboration Samples Transfer From The Standard Alboration Samples Transfer Samples The Standard Alboration Samples Teams Samples The Standard Alboration Samples Teams Samples Tea | | T005-0014-100715-SW-1 | SSOO | Surface Water | Grab | 7/15/2010 | 11:40 | 2 | | 4 C | z |
| Reinquished by Date Time Items Reason Reinquished by Date Received by Date Right Mills Mills 22:37 Marty 11/10 Mills 11/10 22:37 Marty 101/31 11/10 Mills 11/10 | | T005-0015-100715-SW-1 | SSOO | Surface Water | Grab | 7/15/2010 | 12:10 | 04 | | 4 C | z |
| Reinquished by Date The Items Reason Reinquished by Date Received by Date Richard Millia Millia 12:15 Millia M | ecia | Instructions: | | | | | | SAMPLES TI CHAIN OF C | RANSFERRED USTODY# | FROM | |
| JAN 17:15 WARTH- 9:35 Harris 19/16 MAT 1/4/2 26:35 Harris 19/16 Sample Town: 0°C Not Frozen! | E | | Date / | Date | | ms/Reason | Reinquishe | 1 | C | | e Time |
| | | 3 3 1 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | - C C - | Tapp I | 7:12 2:35 7:18 | | Math | 2.6.3 | Tara | 3 | 6 9.35 |
| | | | | | 2 | | N. I | of the state of th | lowe. | 0.0: | |

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No: T0033-100403-07/15/10-0203

CHAIN OF CUSTODY RECORD R06_Deepwater_Grand_Isle

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Fax:(281)983-2248 Phone:(281)983-2100

| 7715/2010 10.25 2 40 ml VOA 4 C 7715/2010 08:50 6 40 ml VOA 4 C 7715/2010 11:55 2 40 ml VOA 4 | # qe- | Sample # | Analyses | Matrix | лх | Collection | Collected | Sample | Numb Cont | Numb Cont Container | Preservativ e | v MS/MS |
|---|--------|-----------------------|----------|-----------|------------|------------|------------|------------|----------------|---------------------|------------------|---------|
| 100715-SW-1 DOSS Surface Water Grab 7175/2010 08-50 6 40 m VOA 4 C Y | | T007-0008-100715-SW-1 | SSOO | Sur | face Water | Grab | _ | 10:25 | 2 | 40 ml VOA | 4 C | z |
| Surface Water Grab 7/15/2010 08:40 2 40 ml VOA 4 C N | | T007-1328-100715-SW-1 | DOSS | Sur | face Water | Grab | 7/15/2010 | 08:50 | 9 | 40 ml VOA | 4 C | > |
| Surface Water Grab 71/5/1 0 15.5 2 40 m/ VOA 4 C N N N N N N N N N | | T007-1332-100715-SW-1 | DOSS | Sur | face Water | Grab | 7/15/2010 | 09:40 | 2 | 40 ml VOA | 4 C | z |
| Relinquished by Date Time Items/Reason Received by Date Time Theory (b) Theory (c) | | T007-BG02-100715-SW-1 | DOSS | Sur | face Water | Grab | 7/15/2010 | 11:55 | 2 | | 4 C | z |
| Reinquished by Date Received by Date Time Items/Reason Reinquished By Date Received by Date | | | | | | | | | NAME OF STREET | DAMEED | TO GO | |
| Relinquished by Date Received by Date Time Items/Reason Relinquished By Date Received by Date | | | | | | | | | SAMPLES | IKANSFERKE | PROM | |
| Reinquished by Date Received by Date Time Nems/Reason Reinquished By Date Received by Date State | Dec al | INSTRUCTIONS. | | | | | | | CHAIN OF | # Kdorso | | |
| 1) (= 7/15/6) Tearis 7/6/6 | Items | | | ceived by | Date | | ems/Reason | Relinquish | | | | |
| | 4 | d | 01/51/6 | | | | | | | Tan | w | 10 |
| | | | | | | | | | | | 5- | |

Report Name: 1007024 FINAL 07 21 10 0910 Page 23 of 25



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

| 15 SPAMPLESON 15 SPAMPLESO | Sample # Sample # T001-2415-100715-SW-1 T001-SW01-100715-SW-1 T001-SW01-100715-SW-1 T001-SW02-100715-SW-1 T001-SW02-100715-SW-1 | 00 40 0 | rizon Reporting uston Lab le: TX le: | Numb Cont 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Preservativ e 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 C 4 | MS/MS | Lab_Zip: Trouston Lab_Zip: Trouston Description |
|--|---|---------|---|---|--|--|---|
| Sample # Analyses Matrix Collected Sample Numb Cont. Preservativ MSMS Description 1001-2415-100715-5W-1 DOSS Surface Water Gab 7715-2010 12.00 2 4 C N Trol-SWU-100715-5W-1 DOSS Surface Water Gab 7715-2010 12.00 2 4 C N Trol-SWU-100715-5W-1 DOSS Surface Water Gab 7715-2010 12.00 2 4 C N Trol-SWU-100715-5W-1 DOSS Surface Water Gab 7715-2010 11.00 6 4 C N Trol-SWU-100715-5W-1 DOSS Surface Water Gab 7715-2010 10.01 6 4 C N Trol-SWU-100715-5W-1 DOSS Surface Water Gab 7715-2010 10.01 6 4 C N Trol-SWU-100715-5W-1 DOSS Surface Water Gab 7715-2010 10.01 6 4 C N Trol-SWU-100715-5W-1 DOSS Surface Water Gab 7715-2010 10.01 6 4 C N Trol-SWU-100715-5W-1 DOSS Surface Water Gab 7715-2010 10.01 1 | 5-100715-SW-1 11-100715-SW-1 11-100715-SW-D 12-100715-SW-1 13-100715-SW-1 | | in po | Numb Cont 2 2 2 2 2 2 6 6 6 6 | Preservative 4 4 C 4 C 4 C 4 C 4 C 4 C 6 C 6 C 6 C 6 | WSW Q Z Z Z X Z Z | Description |
| 100715-SW4 DOSS | | | | 0 0 0 0 0 | 00000 | z z z > z | |
| 1-100715-SW-1 DOSS Surface Water Grab 7715/2010 12:00 2 4C N 1-100715-SW-1 DOSS Surface Water Grab 7715/2010 11:00 6 4C V 2-100715-SW-1 DOSS Surface Water Grab 7715/2010 11:00 6 4C V 3-100715-SW-1 DOSS Surface Water Grab 7715/2010 10:15 2 4C N 3-100715-SW-1 DOSS Surface Water | | | | 0 0 0 0 | A 4 4 A O O O | z z > z | |
| 1-100715-SW-D DOSS Surface Water Grab 7715/2010 12:00 2 4C N 3-100715-SW-1 DOSS Surface Water Grab 7715/2010 10:15 2 4C N 3-100715-SW-1 DOSS Surface Water Grab 7715/2010 10:15 2 4C N 3-100715-SW-1 DOSS Surface Water Grab 7715/2010 10:15 2 4C N N Surface Water Grab 7715/2010 10:15 2 4C N N Reimquished by Council Counc | | | | 0 0 0 | 0 4 4 4 O O | z > z | |
| 2-100715-SW-1 DOSS Surface Water Grab 7715/2010 11:00 6 4 C Y 3-100715-SW-1 DOSS Surface Water Grab 7715/2010 10:15 2 4 C N AND TOSS SURface Water Grab 7715/2010 10:15 2 4 C N AND TOSS SURface Water Grab 7715/2010 10:15 2 4 C N AND TOSS SURface Water Grab 7715/2010 10:15 2 4 C N AND TOSS SURface Water Grab 7715/2010 10:15 2 4 C N AND TOSS SURface Water Grab 7715/2010 10:15 2 4 C N AND TOSS SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY # CHAIN OF CUSTODY # CHAIN OF CUSTODY # AND TOSS SAMPLES TRANSFERRED FROM | | | | 0 2 | 0 0 U | > z | |
| Surface Water Grab 7715/2010 10:15 2 4 C N Surface Water Grab 7715/2010 10:15 2 4 C N Relinquished by Date Time Items/Reason Relinquished by Date Received by Date The State State State State State State State State State State State CHAIN OF CUSTODY # CHAIN OF CUSTODY # The State | | | | 0 | | z | |
| Reinquished by Date Received by Date Time ItemsReason Reinquished By Date Received by Date Not Strain Not Not Not Not Not | ia i letrurine: | | | SAMPL | ES TRANSF | ERRED FR | ОМ |
| Relinquished by Date Received by Date Time ItemsReason Relinquished By Date Received by Date Received by Date Received by Date Received | oedal Instructions: | | | CHAIN | OF CUSTOL | # * | |
| | Reimpuished by Date Reimpuished by Malle ANS | | | 120 | MILL | Received by Sand by Sa | 7/19/10 7/16/10 |

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

Α This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

Undetected U

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

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